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112-57-8-16330

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, pp 41-42, (USSR)

AUTHOR: Fel'dman, M. P.

TITLE: An Economic Substantiation of the Firm Capacity of a Hydroelectric Station (Ekonomicheskoye obosnovaniye obespechennoy otdachi GES)

PERIODICAL: Tr. Mosk. energ. in-ta (Transactions of the Moscow Power-Engineering Institute), 1956, Nr 19, pp 48-57

ABSTRACT: Firm capacity is the maximum capacity of a hydroelectric station that is fully used in the system as a working power and also as a system reserve. Usually, the hydroelectric station capacity used in the year when it covered 99% of demand (without duplication) is referred to as the minimum firm capacity over many years. In particularly low-water years, the average value (over many years) of the energy deficit would constitute only a few hundredths of 1%. On the other hand, an increase in the rated capacity of a hydroelectric station would bring about an increase in the system expenses for building the reserves and for compensating the deficit in low-water years. The author

**Card 1/2** 

112-57-8-16330

An Economic Substantiation of the Firm Capacity of a Hydroelectric Station points out the possibility of creating a reserve in the form of a regulating consumer. Such consumers could increase their production according to the additional yield over the rated year. The optimum value of firm capacity is determined by the minimum of people's economic expenses for production and consumption of electrical energy. This optimum value depends on the cost of the system reserve, on the degree of regulation of water flow, and on the runoff distribution within one year and over many years. Formulae are derived for determining firm capacities for various system reserves.

A.A.B.

Card 2/2

FEIDMAN, M. .

"Economic Grounds for the Availability of Hydro-Electric Station Capacity. report presented at the 14th Sectional Meeting of the World Power Conference, Montreal Canada, 7-12 Sep 1958.

DITHE

AUTHOR:

98-58-3-11/22 Fel'dman, M.P., Doctor of Technical Sciences; Druzhinin, I.P.

Candidate of Technical Sciences

TITLE:

A Method of Determining the Rated Capacity of Planned Hydroelectric Power Plants (Metodika opredeleniya raschëtnoy obespechennosti moshchnosti proyektiruyemykh ges)

PERIODICAL:

Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 3, pp 38 - 45(USSR)

ABSTRACT:

Several publications on methods of determining the guaranteed capacity of hydroelectric power plants have come out in the past years. This article suggests a simple method and norms worked out and tried experimentally in the Sektsiya vodokhozyaystvennykh problem AN SSSR (Section of Water-Engineering Problems of the AS USSR, the Institut energetiki AN Kazakhskoy SSR (Institut of Energetics of the AS Kazakh SSR) and the Vodoenergeticheskiy institut AN Armyanskoy SSR (Water-Power Institute of the AS Armenian SSR. There are 5 graphs, 2 tables, and 10 Soviet references.

Card 1/1

1. Electric power production-USSR 2. Power plants-Design

# "APPROVED FOR RELEASE: Monday, July 31, 2000

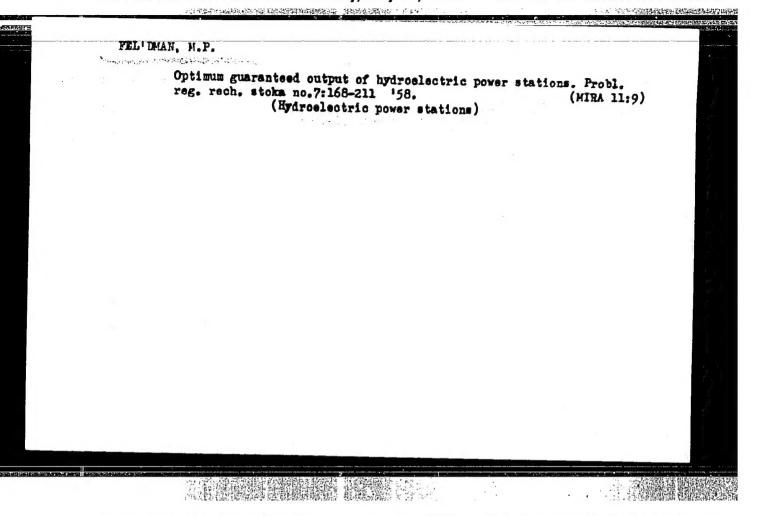
CIA-RDP86-00513R000412820

FEL'DMAN, H.P.; MASTITSKIY, N.V. [deceased]; DRUZHININ, I.P.

Refect of natural and technical factors on the guaranteed output of hydroelectric power stations. Probl. reg. rech. stoka no.7:32-81

158. (Hydroelectric power stations)

(Hydroelectric power stations)



(1) (1) (中华特別的管理部分的管理部分的一种的管理等等)。

YEL'DMAN, M.P.; DRUZHININ, I.P.; VELIKANOV, A.L.

Determining the rated capacity predictability of hydroelectric power stations on the basis of flow data of the Oka and Yenisey Rivers. Probl.reg.rech.stoka no.8:105-188 59.

(MIRA 13:4)

(Hydroelectric power stations)

CONTRACTOR OF THE PROPERTY OF

8(6)

SOV/98-59-9-7/29

AUTHOR:

Beschinskiy, A.A., Engineer, and Fel'dman, M.P., Doctor of Technical Sciences

TITLE:

Increase of Water Power Economy Effect

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 9,

pp 20-27 (USSR)

ABSTRACT:

Specific amounts invested per installed kw for construction of hydropower plants in USSR during the 7-10 years were too high in comparison with those invested for thermal power plants during the same period. The authors recommend measures which could cut costs of hydropower plants (by using water for other watereconomy purposes more extensively). The measures have also been studied by the Energeticheskiy institut AN SSSR (Power Institute of the USSR Academy of Sciences) and by the "Gidroenergoproyekt". They explain these low costs of thermal power plants by their fast de-

Card 1/2

velopment (improved equipment and large generating

SOV/98-59-9-7/29

Increase of Water Power Economy Effect

units, both of which increased efficiency) and by the development of stoking methods which made possible the use of cheap coals and petroleum refinery residuals as fuels. Table 2 shows economic indexes i.e. specific investments for some Soviet hydropower plants. There are 4 tables and 1 graph.

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

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FEL'DMAN, M.P., otv.red.; OKHRIN, N.V., red.izd-ve; GUS'KOVA, O.M., tekhn.red.

[Problems in hydroelectric power production and streamflow regulation] Problemy gidroenergetiki i regulirovaniia rechnogo stoka. Moskva, 1960. 193 p. (MIRA 14:2)

1. Akademiya nauk SSSR. Energeticheskiy institut. (Hydroelectric power stations)

:

TORGOMYAN, M.S., kand. tekhn. nauk; CHILINGARYAN, L.A., kand. tekhn. nauk; SHAKHBAZYAN, Sh.A., kand. tekhn. nauk; AGAKHANYAN, G.A., kand. sel'khoz. nauk; KULOYAN, L.T., kand. tekhn. nauk; ARSHAKYAN, D.T.; BARKHUDARYAN, I.G.; SARKISYAN, S.G., kand. tekhn. nauk; MKHITARYAN, S.A.; OSEIYAN, A.M., doktor ekon. nauk, prof.; BEK-MARMARCHEV, B.I., kand. geogr. nauk, red.; AYVAZ'YAN, V.G., otv. red.; FEL'DMAN, M.P., otv. red.; AVETISYAN, A.A., tekhn. red.; CHAKHAIYAN, TS.P., tekhn. red.

[Results of the combined studies of the Sevan problem]Rezul'taty kompleksnykh issledovanii po Sevanskoi probleme. Erevan, Izd-vo Akad. nauk Armianskoi SSR. Vol.3.[Water resources and power engineering]Vodnoe khoziaistvo i energetika. 1962. 330 p.

1. Akademiya nauk Armyanskoy SSR, Erivan. (MIRA 15:11)
problem.

(Sevan Lake region-Water resources development)
(Sevan Lake region-Power engineering)

FEL'IMAN, M. P., doktor tekhn. nauk

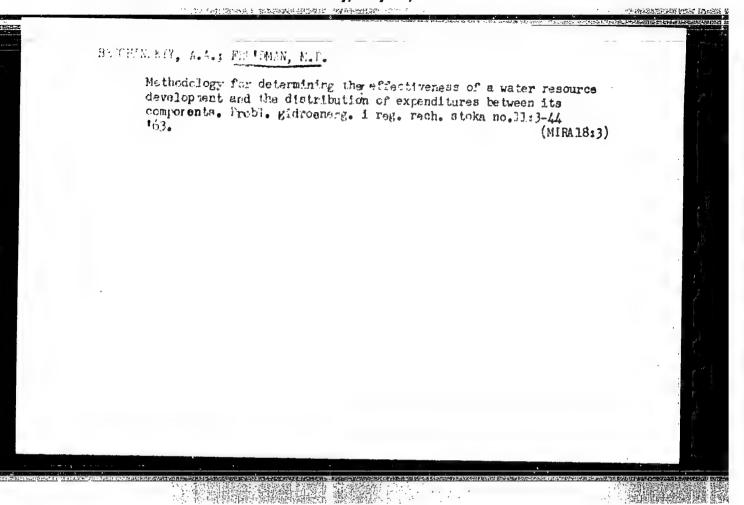
Reconomically justified hydroelactric power construction at a new stage. Gidr. stroi. 33 no.12:22-25 D \*62.

(MIRA 16:1)

(Hydreelactric power stations)

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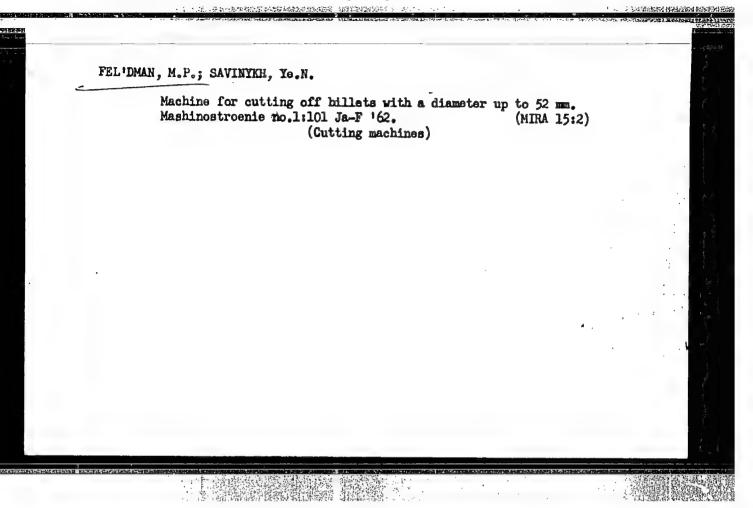
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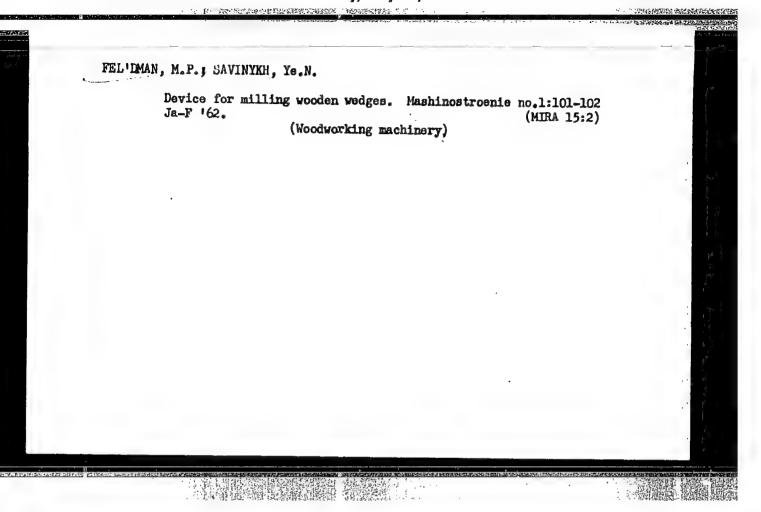


AYVAZ'YAN, V.G., prof.; VELIKANOV, A.L., kand. tekhn. nauk; KOROBOVA, D.N., mlad. nauchn. sotr.; FEL'EMAN, M.P., doktor tekhn. nauk; VASIL'YEV, Yu.F., red.

[Selection of power parameters and structural dimensions of hydroelectric power stations] Vybor energeticheskikh parametrov i razmerov scoruzhenii gidroelektrostantsii. Moskva, Nauka, 1965. 135 p. (MIRA 18:4)

1. Moscow. Energeticheskiy institut.



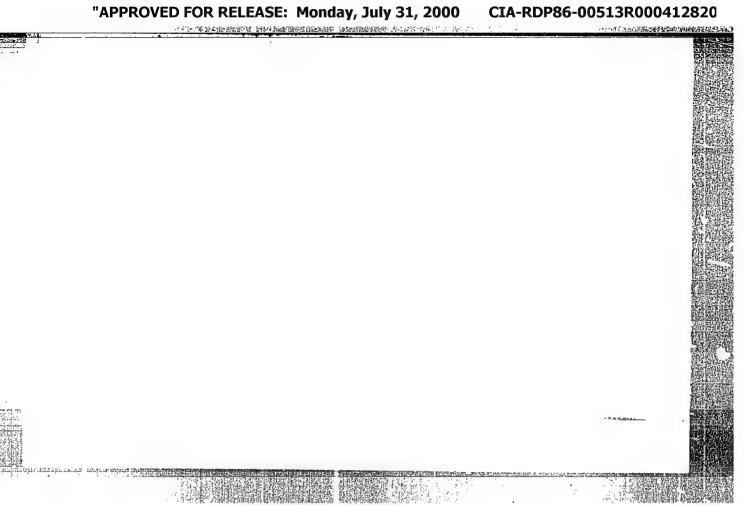


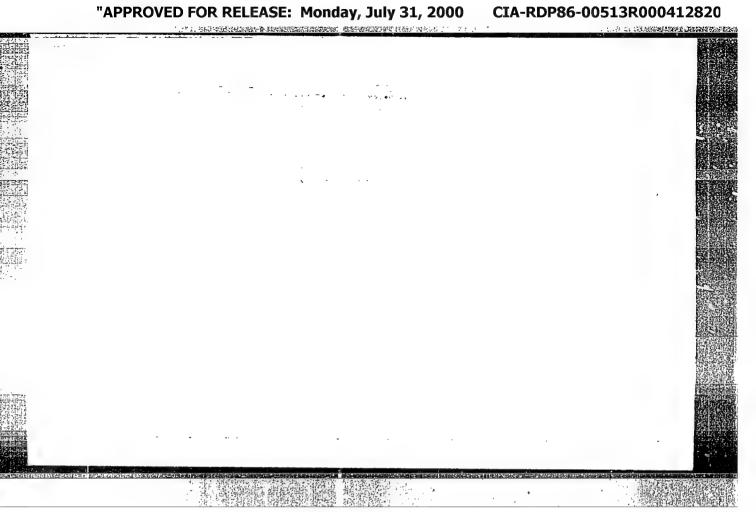
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FEL'DMAN, M.P.; SAVINYKH, Ye.N.

Machine for milling two flats on fixture parts. Mashinostroenie no.1:102 Ja-F '62.

(Milling machines)





FELIDMAN, M.R.

Calculating elastic plates. Nop. AN URER no.5: 451-457 155.
(MIRA 9:3)

1. Dnipropetrovs kiy inshenerno-budivl'niy institut. Predstaviv diysniy chlen AN URSE G.M. Savin.
(Mlastic plates and shells)

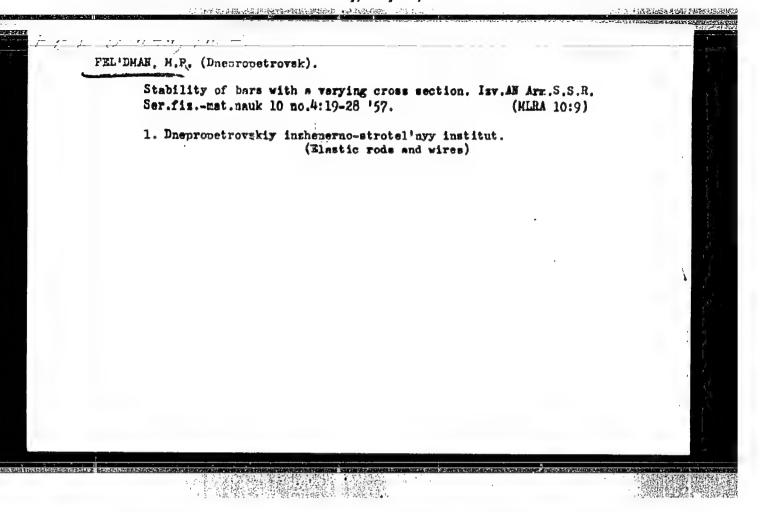
APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

# FEL'DMAN, M.R.

Longitudinal bending of bars taking into consideration plastic aftereffect. Izv.AN Arm.SSR.Ser.FMNT mauk 9 no.1:75-86 56.

(MLRA 9:8)

1. Dnepropetrovskiy inshenerno-stroitel'nyy institut. (Deformations (Mechanics))



Torsional vibrations of bevel shafts [in Ukrainian with summary in Bussian]. Prykl. meih. 4 no.1:105-111 '58, (MIRA 11:4)

1. Unipropetrovs'kiy inshenerno-budivel'niy institut. (Shafting—Vibration)

16(1)

AUTHOR:

Fel'dman, M.R.

SOV/22-12-3-2/9

TITLE:

On a Difference Method for the Investigation of the Stability

and Oscillations of Plates

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fizikomatematicheskikh nauk, 1959, Vol 12, Nr 3, pp 15-28 (USSR)

ABSTRACT:

In the domain H let be given the differential equation

(1) 
$$K[w] = L[w] - \lambda N[w] - f = 0$$
,

where L[w] and N[w] are linear homogeneous differential operators the principal parts of which have the form

$$\sum_{\zeta \in \mathbb{N}} C_{\zeta_1, \dots, \zeta_n} \frac{\sigma^{\zeta_n}(x_1, x_2, \dots, x_n)}{\sigma_{x_1}} \text{ and } \sum_{\zeta \in \mathbb{N}} \frac{\sigma^{\zeta_n}(x_1, \dots, x_n)}{\sigma_{x_1}}$$

respectively,  $T = T_1 + T_2 + ... + T_n$  and C,M,f are given functions of the  $x_1, \dots, x_n$ ; m>1. Let the boundary condition be

$$\sum_{\mathbf{z} < m-1}^{\mathbf{z}} \mathbf{E}_{\mathbf{z}_1}, \dots, \mathbf{z}_n \frac{\mathbf{z}_{\mathbf{w}}^{\mathbf{z}_m}}{\mathbf{z}_{\mathbf{x}_1} \dots \mathbf{z}_n} = 0,$$

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APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128200

On a Difference Method for the Investigation of the SOV/22-12-3-2/9 Stability and Oscillations of Plates

> where the E are known. For the determination of the unknown function w the author covers the domain H with a rectangular net with the node  $Q_j(x_{1j},x_{2j},...,x_{nj})$ , j=1,2,...,N and approximates (1) by the system of linear algebraic equations

(2) 
$$\sum_{z=-q}^{q} \left[ S_{i,y+z}(x_{i,j}) w_{i,j+z}(x_{i,j}) - \lambda R_{ij}(x_{i,j}) w_{i,j}(x_{i,j}) \right] = f_{i,j}(x_{i,j}).$$

How the solution is sought in the form

$$w(x_{i,j}) = \sum_{k,t,...,r} \psi_{1k}(x_{1j}) \psi_{2t}(x_{2j}) ... \psi_{nr}(x_{nj}).$$

The postulate that (1) vanishes identically for the given boundary conditions is replaced by the weaker postulate that  $\mathbb{K}[w(x_{i,j})]$  is orthogonal to all functions  $\psi_{i,\nu}(x_{i,j})$ . These assumptions lead to a system of equations from which \(\lambda\) can be determined in the homogeneous case and the A can be determined in the inhomogeneous case. The method converges in all cases where the method of Bubnov-Galerkin is convergent. The author uses the method for the investigation of the stability and

Card 2/3

. On a Difference Method for the Investigation of the 507/22-12-3-2/9 Stability and Oscillations of Plates

oscillations of a quadratic plate which is supported freely and which is charged in its plane along the boundary by uniformly distributed forces acting normally to the boundary, and for the examination of the stability of a plate of variable thickness for a compressive load by steps. The deviation from the rigorous solution amounts 2%. An example is calculated.

There are 6 figures, 1 table, and 12 Soviet references.

ASSOCIATION: Dnepropetrovskiy inzhenerno-stroitel'nyy institut (Dnepropetrovsk Institute of Civil Engineering)

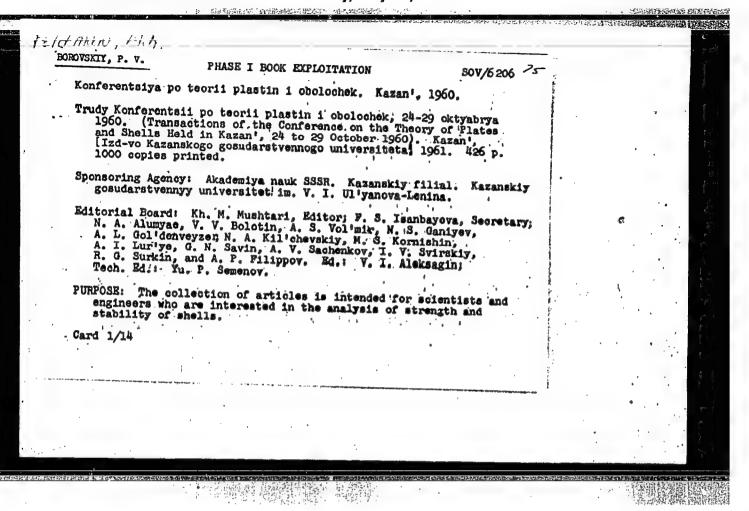
SUBMITTED: May 26, 1958

Card 3/3

Theory of bending of rectangular plates with large deflections.

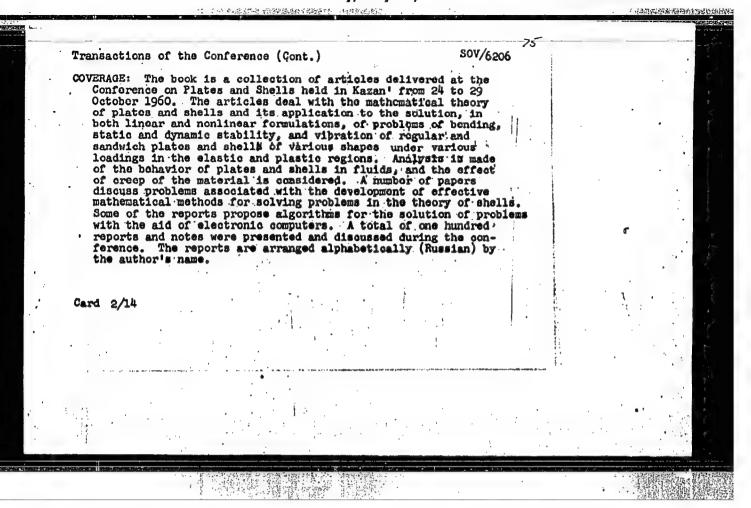
Issl. po teor. scorush, no. 9:173-190 '60. (MIRA 14:1)

(Elastic plates and shells)



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CIA-RDP86-00513R000412820



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Transactions of the Conference (Cont.)	SOV/6206 /
Fel'dman, M. R. Vibration of an Anisotropic Plate Making Allowance for the Rheological Properties of the Material	382
Filin, A. P. Analysis of Arbitrarily Shaped Shells Based on a Discrete Design Scheme	388
Fleyshman, N. P. Analysis of Plates With Curvilinear Stiffeners	399
Frolov, O. A. Stress Compentration in a Cylindrical Shell Weakened by a Cutout	408
Shveyko, Yu. Yu. Flutter of a Circular Cylindrical Shell	414
List of Reports Not Included in the Present Collection	419
Card 13/14	

21969

S/020/61/137/005/012/026 B104/B214

10.9110 AUTHOR:

167300

Fel'dman, M. R.

TITLE:

The stability of orthotropic plates with step like change

in rigidity

PERIODICAL:

Doklady Akademii nauk SSSR, v. 137, no. 5, 1961, 1086-1089

TEXT: Oscillations of orthotropic rectangular plates are studied, the plates showing a step like variation of the rigidity. The plates are assumed to be under the action of a force of compression T in the direction of the length. The problem is solved with the help of finite differences and the method of Bubnov-Galerkin. By means of a rectangular lattice each side of the plate is divided into n equal parts with lattice constant  $\mathcal{E} = a/n$ . The divergence  $u_0$  of the plate satisfies in each part of the lattice the difference equation:

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21969

The stability of orthotropic ...

S/020/61/137/005/012/026 B104/B214

$$2(3+3k_{2}+4k_{3})u_{0}-4(k_{2}+k_{3})(u_{2}+u_{4})-4(1+k_{3})(u_{1}+u_{2})+\\+2k_{3}(u_{3}+u_{6}+u_{7}+u_{8})+k_{2}(u_{11}+u_{12})+u_{9}+u_{10}=\\=\lambda\frac{P_{v}}{R_{v}}(2u_{0}-u_{1}-u_{3})+Fu_{0},$$
(1)

Here,  $P_{\nu} = (T_0 + T_1 + \cdots + T_{\nu})/T_0$ ,  $T = \sum_{\nu} T_{\nu}$ ,  $\nu$  is the number of parts of the plate,  $R_{\nu} = D_{\nu}/D_0$ ;  $\lambda = a^2 T_0/D_0 n^2$ ;  $F = \rho p^2 a^4/D_0 n^4$ ;  $k_2 = D_2/D_0$ ;  $k_3 = D_{\nu}/D_0$ ;  $D_0 = E_0 h^3/12(1 - \mu_1 \mu_2)$  is the cylindrical rigidity of the first part along ox,  $D_{\gamma}$  the same for the  $\gamma$ -th part,  $D_2 = E_2 h^3/12(1 - \mu_1 \mu_2)$ ;  $D_3 = D_0 \mu_2 + 2D_k$ ;  $D_k = Gh^3/12$ ; p is the frequency of oscillations, and  $\rho$  the mass of the plate per unit area. A formula is obtained for the relation between the frequencies p of the characteristic oscillations and Card 2/6

The stability of orthotropic ... S/020/61/137/005/012/026 B104/B214.

the compression T acting along the length of the plate at  $\frac{2395}{5}$  = 0,  $\frac{2395}{5}$  = 0, and  $\frac{2395}{5}$  = 0,

$$p^{2} = \frac{9.65(R_{1} + P_{1})}{9a^{2}(R_{1} + 1)} \left[ \frac{19.34(1 + k_{1} + 2k_{2})D_{1}}{a^{2}(R_{1} + P_{1})} - T \right]. \tag{3}$$

From this equation the frequency of the oscillations can be found if the magnitude of the force of compression is known. The fundamental frequency of the characteristic oscillations is found for T=0. The critical load is written in the form:  $T_{\rm cr} = VD_{\nu}/a_{\rm red}^2$ . Here,  $a_{\rm red} = \alpha a$  the reduced side of the plate,  $\alpha$  is a coefficient depending on the manner of loading and the boundary conditions of the plate. Thus, the problem is reduced to finding the  $\alpha$  values for different ratios between  $P_{\nu}$  and  $P_{\nu}$  (Fig. 2). The principle of Volterra-Rabotnov (Ref. 3: Yu. N. Rabotnov, Prikl. matem. i mekh., 12, v. 1, (1948)) is used for taking into account

Card 3/6

CUTTE

S/020/61/137/005/012/026 B104/B214

The stability of orthotropic ...

the effect of rheologic material properties on the critical forces of orthotropic plates, and with the help of integral operators the following approximate formula is derived for the critical forces:

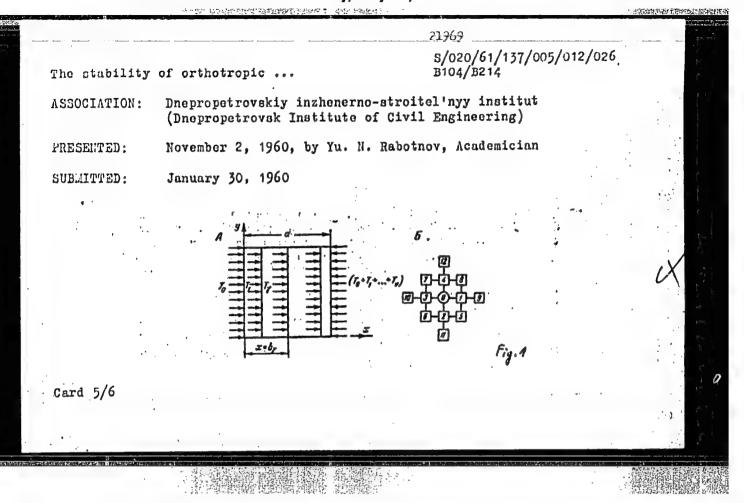
$$T_{\rm KP}(t) \approx T_{\rm KP}(0) \left\{ 1 - \sum_{l=1}^{8} \frac{a_l}{\beta_l} \left[ 1 - \exp(\gamma_1 \beta_l t)^{1-\alpha} \right] \right\}.$$
 (12).

Here,  $T_{\rm kp} = T_{\rm cr}$ ,  $a_1 = E_{10}h\delta_1(1+2\mu_2)/T$ ;  $a_2 = E_{20}h\delta_2/T$ ;  $a_3 = 4G_0h^3\delta_3(1-\mu_1\mu_2)/T$ ;  $\beta_1 = \delta_1\tau_1^{-1}$ ,  $\tau_1$  are the relaxation times,  $\delta_1 = (E_{10}-E_{100})/E_{10}$ ;  $\delta_2 = (E_{20}-E_{200})/E_{20}$ ;  $\delta_3 = (G_0-G_{00})/G_0$ ;  $\gamma_1 = (1-\alpha)^{1-\alpha}$ ;  $E_{10}$ ,  $E_{20}$ , and  $G_0$  are the instantaneous moduli of elasticity and shear. N. Kh. Arutyunyan, M. I. Rozovskiy, A. Yu. Ishlinskiy and A. R. Rzhanitsyn are mentioned. There are 2 figures and 7 Soviet-bloc references.

Card 4/6

## "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820



S/879/62/000/000/037/088 D234/D308

AUTHOR:

Fel'dman, M. R. (Dnepropetrovsk)

TITLE :

Dynamical stability of orthotropic plates

SOURCE:

Teoriya plastin i obolochek; trudy II Vsesoyuznoy konfe-

rentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo AN USSR, 1962, 244-248

TEXT: Using a combination of the difference method with the Bubnov-Galerkin method, the author derives the equation

$$\frac{d^2T(t)}{dt^2} + \omega_k^2 \left[ 1 + \frac{N + N_t \cos \theta t}{N_k} \right] T(t) = 0$$

or

$$\frac{d^2T(t)}{dt^2} + \Omega_k^2 \left[ 1 + \frac{N_t \cos \theta t}{N_k + N} \right] T(t) = 0$$
 (13)

Card 1/2

Dynamical stability of ...

S/879/62/000/000/037/088 D234/D308

for a rectangular plate and quotes the equations of dynamical stability obtained by him for 1) a square plate freely supported and compressed in two directions perpendicular to each other, 2) a square plate with step-wise varying rigidity, uniformly compressed in one direction. For the first case he indicates the most dangerous domain of instability, as well as the minimum values of critical static force and minimum natural frequency when the plate is isotropic. The frequency is

$$\omega_1 = \frac{19.73}{a^2} \sqrt{\frac{\overline{D}}{m}}$$

(16)

There are 2 figures.

Card 2/2

GLAVINSKIY, David Germenovich; DENSHCHIKOV, Mikhail Tikhonovich;
PIGUZOV, A.T., ingh., retwenzent; FEL'IMAN, M.S., inzh.,
rotmenzent; POPOV, V.I., prof., spets. red.; KOVALEVSKAYA,
d.I., red.; SOKOLOVA, I.A., tekhn. red.

[Mechanization and automation in the brewing industry] Mekhanizatsiia i avtomatizatsiia pivovarennogo proizvodstva.
Khanizatsiia i avtomatizatsiia promyshlennost'," 1964. 419 p.

(MIRA 17:4)

### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820

L 56152-65
ACCESSION NR: AP5017800

UR/0288/85/000/011/0031/0031

AUTHOR: Karatayev, I. I.; Mel'nik, B. D.; Rapsorodakly, I. M.; Vasil'yev, B. T.; Dystrov, Daktory, N. L.; Mazarov, G. N. Raygorodakly, I. M.; Vasil'yev, B. T.; Dystrov, D. M.; H. V.; Babaryka, I. F.; Kuryak, F. A.; Fel'dman, M. V.; Soverchenko, D. A.; H. V.; Sobchuk, Yu. I.; Teatlina, M. M.; Andreyev, V. V.; Kramer, G. L.

TITLE: A method for producing phosphoro-potassium fertilizers. Class 16, No. 171-409

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 31

TOPIC TAGS: fertilizer, phosphate, potassium

ABSTRACT: This Author's Certificate introduces a method for producing phosphoro-potassium fertilizers using coment dust (waste from cament production) as the potassium raw material. The process of adding potassium to the product is simplified and evaporation is prevented by using a 20% excess of an acid which directly neutralizes the cement dust for breaking down the phosphate rew material.

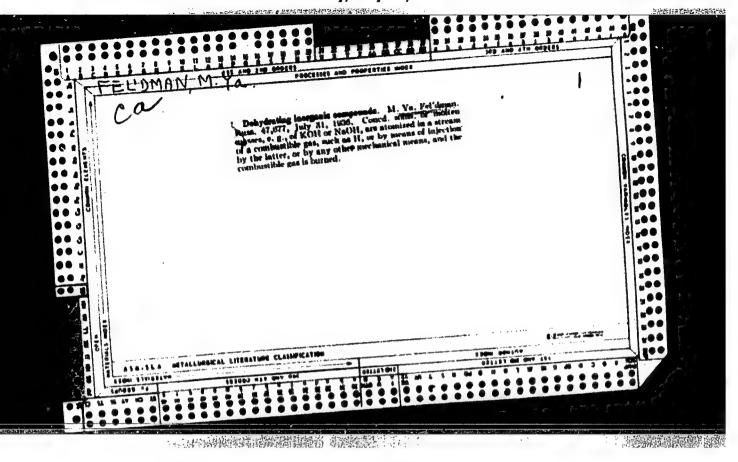
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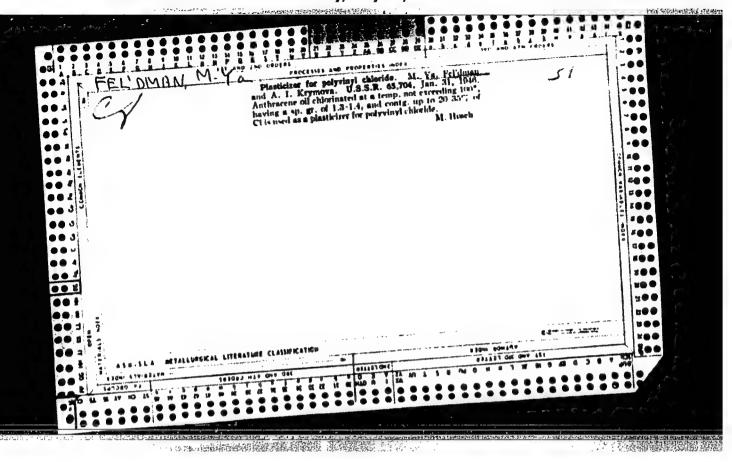
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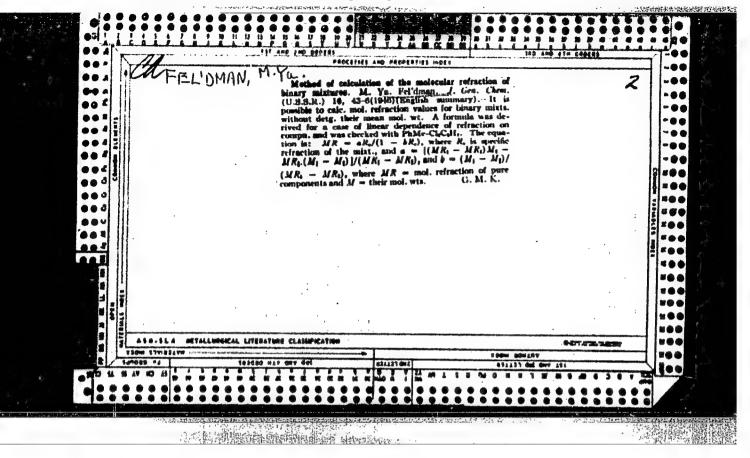
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ASSOCIATION: none  SUBMITTED: 29Mar62 ENCL: 00  NO REF SOV: 000 . OTHER: 000	SUB CODE: GC, LS	
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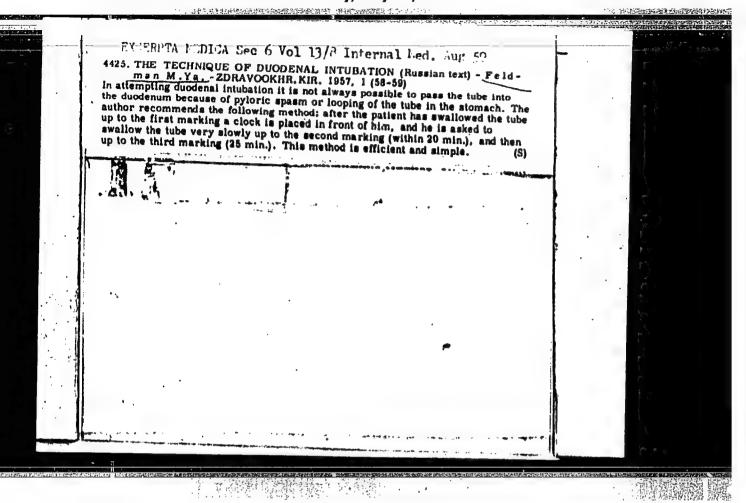






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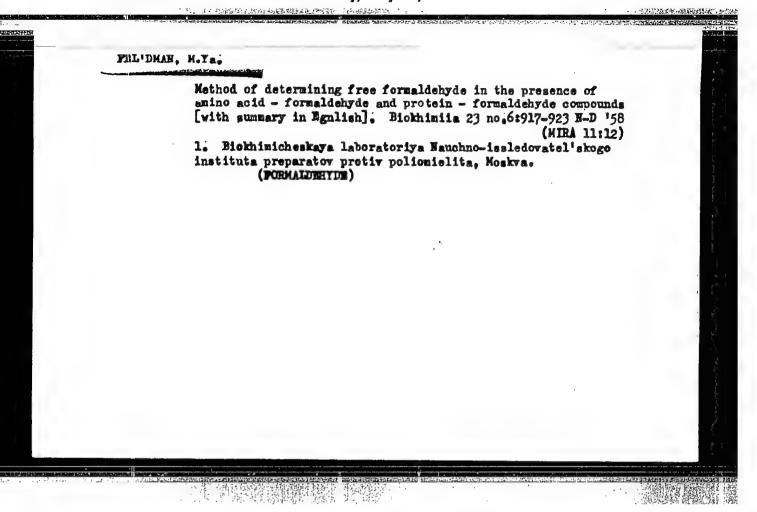
CIA-RDP86-00513R000412820



# FEL'DMAN, M.Ya.

Method for determining protein and nonprotein nitrogen in the blood in Convay dishes modified by S.R.Mardashev and N.N.Lestrova. Lab. delo 3 no.4:53-54 J1-Ag 157. (MLRA 10:8)

1. Iz laboratorii Bazar-Kurganskoy rayonnoy bol'nitsy (glavnyy vrach V.V.Ryabova)
(BLOOD--AMALYSIS) (IABORATORIES--EQUIPMENT AND SUPPLIES)
(WITROGEN)



2007 《1987年的文学表示文明开始性》(1963年的 - 1996年)(1965年)

FEL 'DMAN, M.Ya.

Chemical control of inactivated vaccine against poliomyelitis. Vop. virus. 4 no.6:689-692 N-D 159. (MIRA 13:3)

1. Biokhimicheskaya laboratoriya Moskovskogo nauchno-issledovatel'skogo instituta perparatov protiv poliomiyelita. (POLIOMYELITIS immunol.) (VACCINES)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

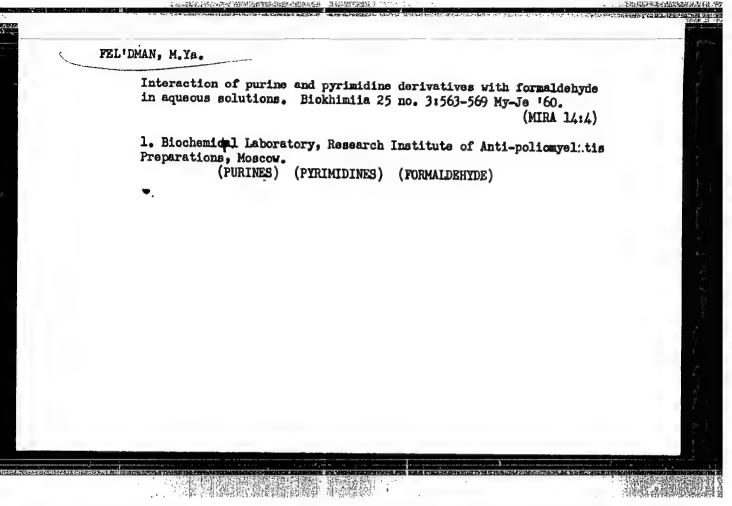
# FEL DMAN, M.Ya.

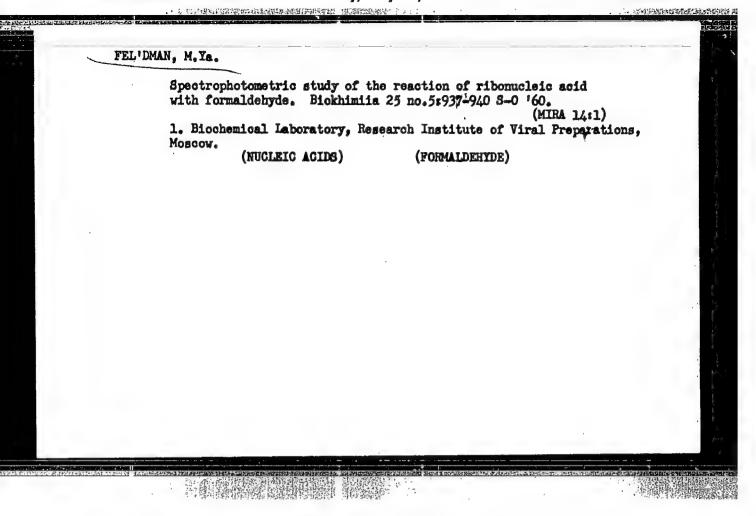
Studies on free fromaldehyde quantities during the inactivation of poliomyelitis virus with formaline. Biul.eksp.biol.i med. 47 no.8: 85-87 Ag '59. (MIRA 12:11)

1. Iz biokhimicheskoy laboratorii (sav. - kand.biolog.nauk N.Y. Kholchev) Moskovskogo nauchno-issledovatel'skogo instituts preparatov protiv poliomiyelita (nauchnyy rukovoditel' - prof. V.D. Solov'yev). Predstavlena deystvitel'nym chlenom AMW SSSR A.Ye. Braunshteynom.

(FORMALDEHYDM)

(POLIONYELITIS VIRUSES)





ender de la company de la comp

FELDMAN, M. Ya.

"A Study of the Reaction of Nucleic Atids with Formaldehyde. !

report submitted for the 5th Intl. Congress of Biochemistry, Mosoow, 10-16 August 1961

Inst. of Viral Preparations, Moscow.

# FEL'DMAN, M.Ya. Condensation of 6-aminouracils with formaldehyde. Biokhimiia 26 no.5 S-0 '61. 1. Biochemical Laboratory, Research Institute of Viral Preparations, Moscow. (FORMALDEHYDE) (URACIL)

2. 人。THENDERGRAPH AND THE STATE OF THE STAT

FEL'DMAN, M.Ya.

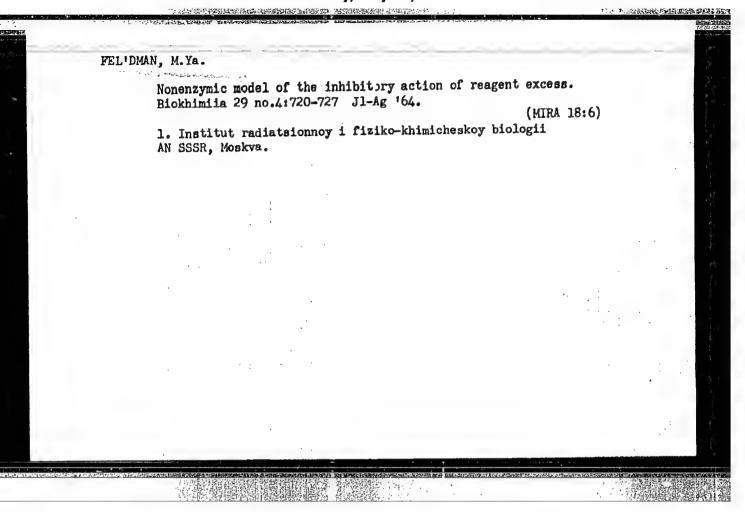
Condensation of adenine and adenosine with formaldehyde. Biokhimiia 27 no.2:378-384 Mr-Ap 162. (MIRA 15:8)

1. Laboratory of Biochemistry of Viruses, Institute of Radiation and Physico-Chemical Biology, Academy of Sciences of the U.S.S.R., Moscow.
(ADENINE) (CONDENSATION PRODUCTS (CHEMISTRY) (FORMALDEHYDE)

Chemical fundamentals in the preparation of viral formalinized vaccines. Vop. med. Khim. 9 nc. 3:232-239 My-Je '63.

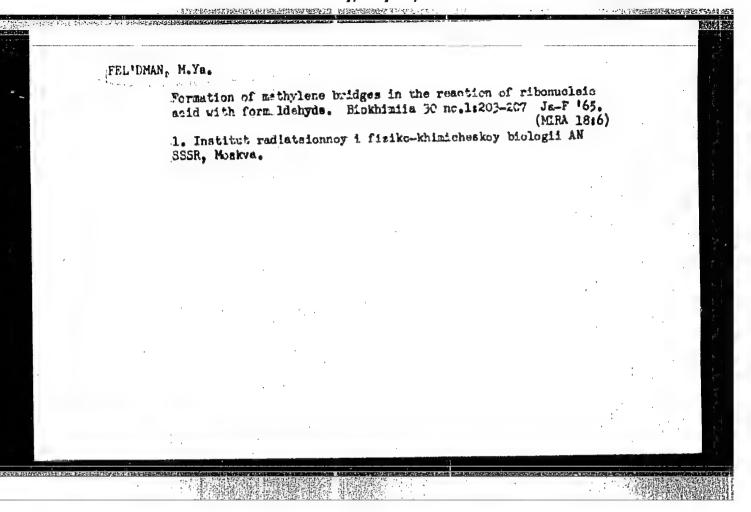
(MIRA 17:9)

1. Laboratoriya biokhimii virusov Instituta radiatsionney i fiziko-khimicheskoy biologii AN SETR, Moskva.



# "APPROVED FOR RELEASE: Monday, July 31, 2000

# CIA-RDP86-00513R000412820



# "APPROVED FOR RELEASE: Monday, July 31, 2000

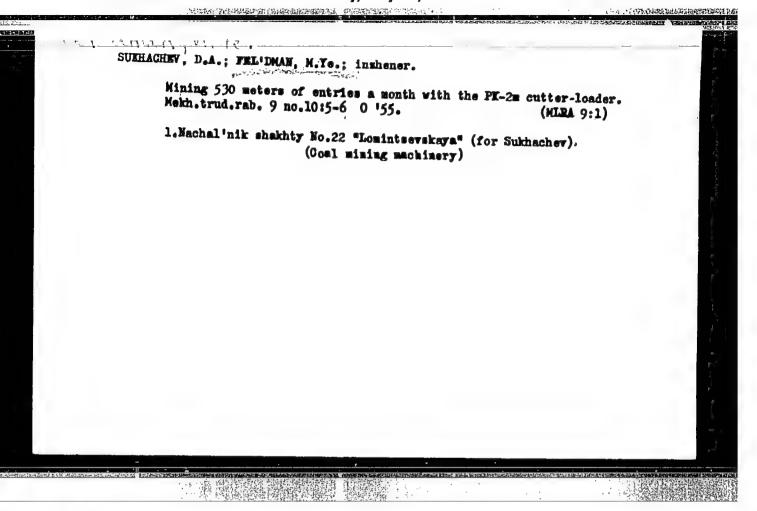
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PERULON, Solar FELLOMEN, N.B., KODECOMINA, Ya.v.

Shudy on the solid solutions of (Shim, 1993 v) 7000 . Lov. AN

SHUR, New. Thr. 2) on the Commission of (Shim, 1993 v) 7000 . Lov. AN

SHOR, New. Thr. 2) on the Commission of the



SUKHACHEV, D.A.; FEL'DMAN, M.Ye., inzhener.

Sinking 902 meters of preparatory shafts a month with the PK-2m combine. Mekh. trud. rab. 10 no.8:10-11 Ag '56. (MLRA 9:10)

1. Nachal'nik shakhty no. 22 "Lomintsevskaya." (for Sukhachev). (Coal mining machinery)

TEL'DMAN, M.Ye., inzh.; HETZIN, B.S., inzh.

One thousand three hundred and four meters of driftage in one month. Shakht.stroi. no.10:21-23 0 '57. (MIRA 10:12) (Wining engineering)

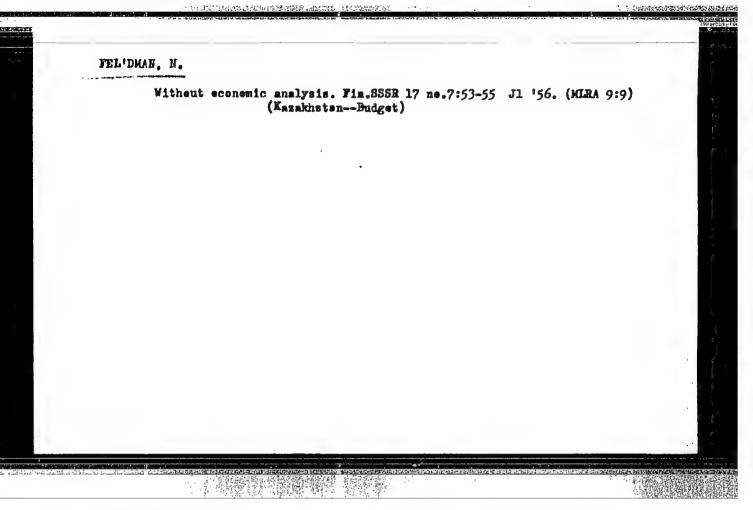
一、三人工工作的特別的特別的

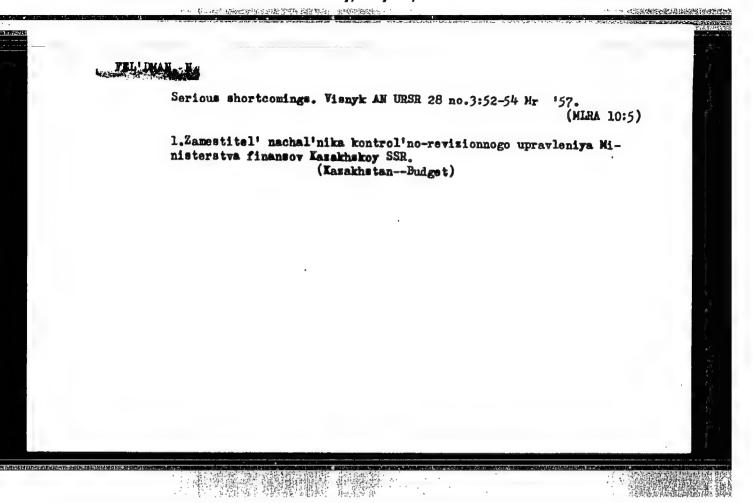
FEL'DMAN, M.Ye., insh.

Mechanization and automation of dump car cleaning to control the freezing of ore and rock. Izv. vys. uch. zav.; gor. zhur. 5 no.6:150-155 '62. (MIRA 15:9)

1. Gosudarstvennyy institut po proyektiorvaniyu gornykh predpriyatiy shelesorudnoy i margantsevoy promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh. Rekomendovana kafedroy avtomatizatsii proisvodstvennykh protessov Sverdlovskogo gornogo instituta imeni Vakhrusheva.

(Mine railroads—Cars) (Automatic control)





VILCU, St. M., Academician; FELDMAN, N.; WOLFSHAUT, C.

Polyalgias of asthenic neurosis or neurotic pseudo-rheumatism.

Probl. reumat., Bucur. 4:21-26 1956.

(NEURASTHENIA, complications polyalgias, pseudo-rheum.)
(RHEUMATISM pseudo-rheum., neurotic, causing polyalgias)
(PAIN, etiol. & pathogen.
polyalgia caused by neurasthenia)

MILCU, St., M., Acad.; FELDMAN, N., dr.; DAMIAN, Elena, chimista

Urinary elimination of 17-ketosteroids in arthrosis and spondylosis after Merculane sulphurous thermal therapy.

Med. int., Bucur. 9 no.1:27-36 Jan 57.

1. In colaborare cu Institutul de balneologie, Sectia clinica de reumatologie, colectivul dr. I. Stoia.

(SPONDYLOSIS, therapy

balneother., thermal, sulphurous, eff. on 17-ketosteroids in urine)

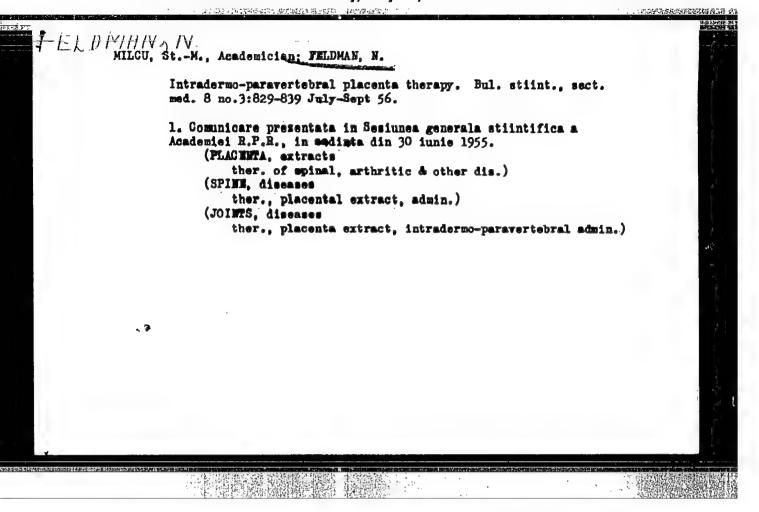
(ARTRIFIS, ROTHMANOID, therapy

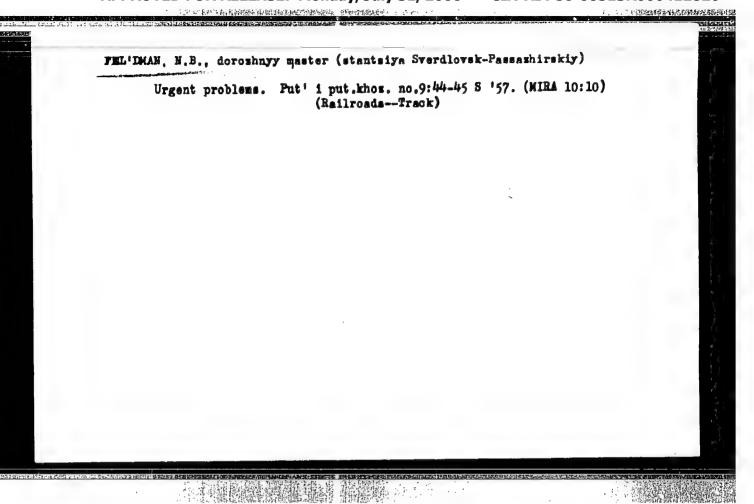
(SAME)

(BALNOLOGY

thermal sulphurous ther. of spondylosis & rheum.

arthritis)





EWP(e)/EPA(s)-2/EWT(m)/EWP(1)/EPA(w)-2/EWP(t)/EWP(b)/EWA(b)
8118 IJP(c) JD/WH SOURCE CODE: UR/0048/65/029/011/2050/2054 L 7835-66 ACC NR: APSO28118 IJP(c) Rodicheva, Ye. N. AUTHOR: Fedulov, S.A.; Fel'dman, N.B. ORG: All-Union Scientific Research Institute of Chemical Reagents and High Purity Chemicals (Vsesoyuznyy nauchno-issledovatel skly institut khimicheskikh reakitvov i osobo chistykh khimicheskikh veshchestv) TITLE: Investigation of lead "titanate" - lanthanum titanate solid solutions (Report, Fourth All-Union Conference on Ferro-electricity held at Rostov-on-the Don 12-16 September 19647 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 11, 1965, 2050-2054 TOPIC TAGS: ferroelectric material, piezoelectric ceramic, solid solution, lead, lanthanum, titanate, dielectric constant, dielectric loss, Curie point, lattice parameter, electric polarization, piezoelectric modulus ABSTRACT: The ferroelectric and piezoelectric properties of (1 - x)PbTiO3 + +  $\times$ La $_{2/3}$ TiO $_3$  solid solutions were investigated. The specimens were synthesized from the oxides by a special ceramic technique described in an Inventor's Certificate by I.A.Grozman, L.Z.Rusakov, and N.B.Fel'dman (Avtor. svid. No. 135394 ot 25 marta 1960) and involving 2-hour roastings at 910 and 1180-1270°C. X-ray studies showed that solid solutions were formed for values of x up to 0.5 and above. The volume of the unit cell decreased with increasing x; from this it is concluded that the trivalent

L 7835-66

ACC NR: AP5028118

0

lanthanum ions replace the divalent lead rather than the tetravavelent titanium ions. The dielectric constant and electric conductivity were measured at different temperatures, dielectric hysteresis loops were observed, and the piezoelectric properties were investigated by the resonance method. The solid solutions showed both ferroelectric and piezoelectric properties. The Curie temperature decreased with increasing x from approximately  $500^{\circ}$ C for x = 0 to  $0^{\circ}$ C for x = 0.5; this decrease of the Curie temperature is ascribed to the fact that the trivalent lanthanum ions are considerably less polarizable than the divalent lead ions that they replace. The radial electromechanical coupling constants of polarized specimens ranged between 0.1 and 0.2, the piezoelectric activity increasing with increasing x. The electric conductivities of the solid solutions were in general less than that of pure lead titanate. By extrapolating hysteresis loop measurements to x = 0, values of 4 kV/cm and 50 µC/cm2 were found for the coercive field and spontaneous polarization of lead titanate. This value of the polarization is in good agreement with the finding of G.Shirano and S.Hochino (proc. Inst. Red. Engrs., 43, No. 12, 1738 (1955)), but the value 90-100 µC/cm2 calculated from the latent heat of the phase transformation is believed to be more nearly correct. The discrepancy is ascribed to the use of coranic specimens rather than single crystals. It is concluded that the investigated materials will find practical application, owing to their rather high Curie points and their appreciable piezoelectric activities. Orig. art. has: 6 figures.

SUB CODE: SS .EM .ME

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APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128200

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CIA-RDP86-00513R000412820

	11. F. M. C.
I. 27166-66 MT(1)/FMP(a)/FFG(k)-2 TJP(c) WH  ACC NR. AP6009839 SOURCE CODE: UR/0413/66/000/004,	/0032/0033
INVENTOR: Fel'dman, N. B.; Filimoncheva, K. I.	13
ORG: none ::	19
TITLE: Increasing the piezoactivity of ceramic piezoelements. Class 21, 1	No. 178864.
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 196	6, 32-33
TOPIC TAGS: piezoactivity, piezoelectric ceramic element	
ABSTRACT: An Author Certificate has been issued describing a method using a treatment to increase the piezoactivity of piezoelectric ceramic elements. The electromechanical coupling coefficient during radial vibrations, the bipiezoceramic elements with electrodes applied to them are heated to temperative. 20—70C above the Curie point, cooled at maximum rate to room temperature, ized.	lanks of tures of
SUB CODE: 11/ SUBM DATE: 14Mar64/	
Card 1/1 BK UDC: 621.372.412.002.2	
CONSTRUCTION OF THE CONSTR	

SENG MEN. N.V.; VETROV, I.Yo.; DEOZDOV, A.A., inzh., prepodavatel; SAVEL'ELV, S.T., inzh., prepodavatel; SURKIS, M.N., inzh., prepodavatel; ELATAV, B.E., inzh., prepodavatel; ELATAV, B.E., inzh., prepodavatel; ELATAV, B.E., inzh., prepodavatel; C.A., V.D., inzh., prepodavatel; ELATAV, B.E., prepodavatel;

Once more about the training of locomotive servicing brigades. Elek.; to.l. taig.; no.5:44 hy '61. (SIRA 14:7)

1. Nedalnik kiyevahoy teknicheskoy shkoly (for Sergeyev).
2. Ermotitel' nachal'nik Kiyevakoy teknicheskoy shkoly (for Vetrov). 3. kiyevakaya teknicheskaya shkola (for Drozdov, S.vel'yev, Surkis, Bulatov, Dukler, Fel'dman).

(Endlrozdo - Engleyes)

(Locomotive - Inintenance and repair)

30777. FEL'DMAN, N. G. AND BRAUN, A. D.

Toksichnost' krasiteley i svyazyvanie ikh nativnymi belkami. Doklady Akad. nauk SSSR, Novaya seriya, T. LXVIII, No. 4, 1949, s. 757-60. -- Bibliogr: 8 nazv.

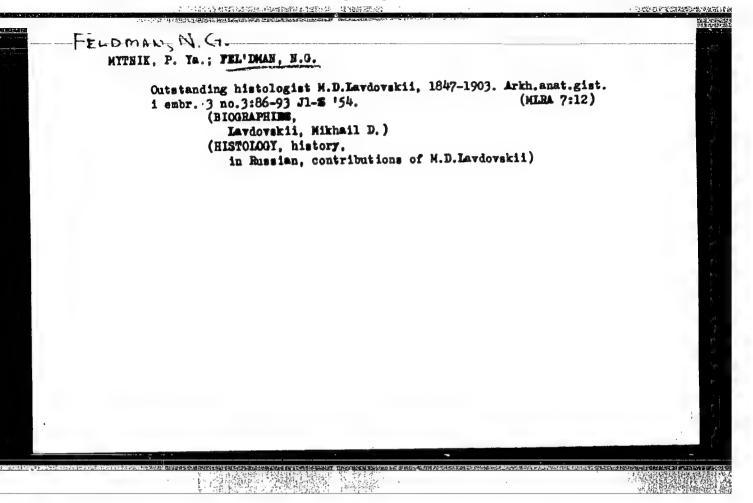
"不能是是不是一个一个,我们是是是不是一个人," 医医疗

DEMIRCHOGLYAN, G.G. Valuable work on the histology of the retina ("Ontogenesis and histopathology of the retina; variation of its neural elements

in an experiment." N.G. Fel'dman. Reviewed by G.G. Demirchoglian). Isv.AN Arm. SSR.Biol.i sel'khos. nauki. 4 no.12:1185-1188 51.

(MIRA 9:8)

(EETIMA) (FEL'IMAN, N.G.)



FEL'DMAN, Matal'ya Grigor'yavna; ZINOY'TBV, I.A., redaktor; POPRTADUKHIN,

K.A., tekhnicheskiy redaktor

M.D. Lavdovskii, 1847-1902, Moskva, Gos. ind-vo med. lit-ry, 1956.

169 p.

(LAVDOVSKII, MINHAIL DORMIDONTOVICH, 1847-1902)

T

Country: VSSR

Category: Human and Animal Physiology. Sense Organs.

Vision.

Abs Jour: RZhDiol., No 19, 1958, 09349

Author : Fel'dinn, W.G.

: Astrakhan Medical Institute Inst

: Trophic Changes of the Eyes Associated with Title

Disorders of Their Sensory Innervation.

Tr. Astrakhansk. med. in-ta, 1956, 12, No 2, Orig Pub:

120-133.

Abstract: No abstract.

: 1/1 Card

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CONTRACTOR OF THE PROPERTY OF

CIA-RDP86-00513R0004128200 APPROVED FOR RELEASE: Monday, July 31, 2000

## Ontogenesis of the visual path in dogs and guines pigs. Probl.fisiol. opt. 12:409-421 158 1. Laboratoriya neyrogistologii Instituta obshchey i eksperimentalinoy patologii ANN SSSR i Kafedry gistologii Astrkhamskogo meditsinskogo instituta. (DOGS) (GUINEA PIGS) (EYE.\_\_ INMERVATION)

FEL'DMAN, N.G. (Astrakhan', ul. Shaumyana, d. 41, kv. 2); KNORRE, A.G.

"Morphology of the olfactory organ" by IA.A. Vinnikov, L.K. TITOVA.
Reviewed by N.G. Feld'man, A.G. Knorre. Arkh.anat.gist. i embr. 36
no.1:106-108 Ja '59. (MIRA 12:3)

1. Adres Knorre: Leningrad, 100, Litovskaya ul., d. 2 Pediatricheskiy meditainskiy institut, kafedra gistologii i embriologii.

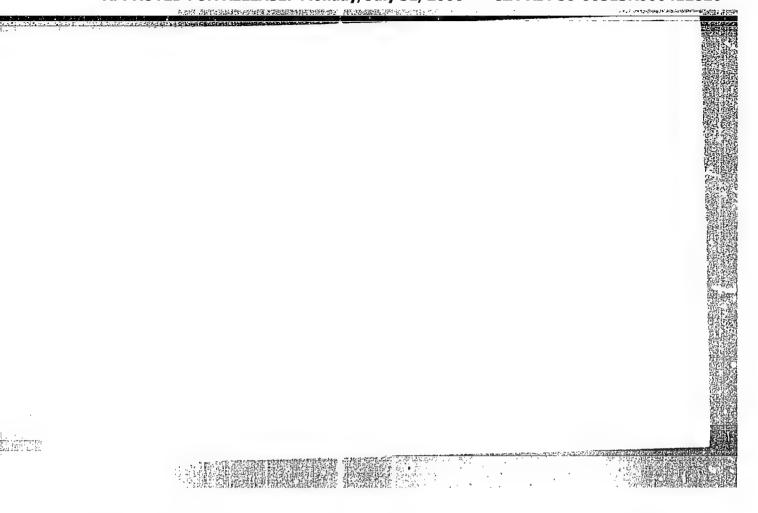
(NOSE) (VIRNIKOV, IA.A.) (TITOVA, L.K.)

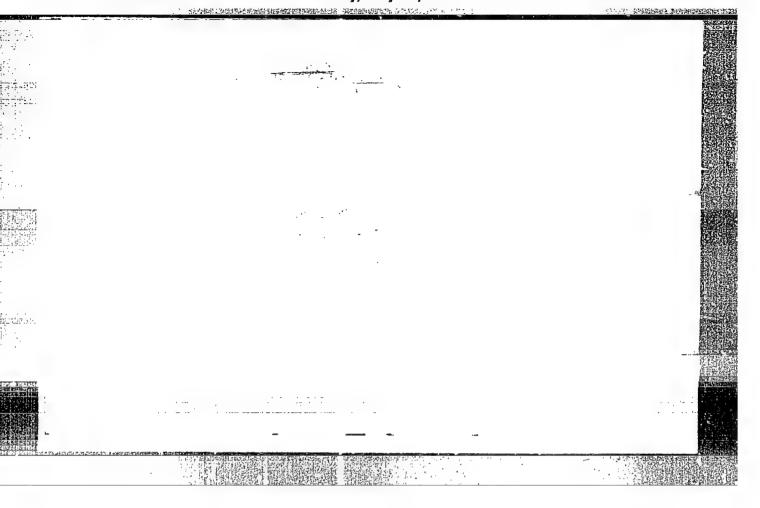
FEL! DMAN, N. I.

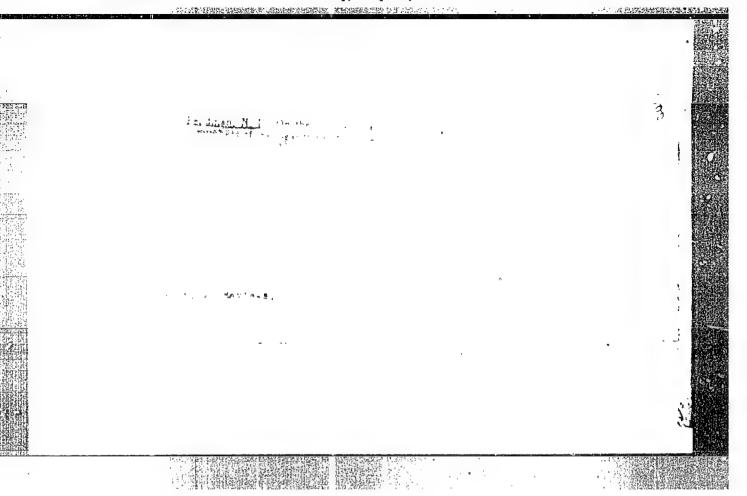
"Arithmetic Properties of Two Periodic Functions." Thesis for degree of Cand. Physicomathematical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U
imeni M. V. Lomonosov.

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1940. From Vechernyava Moskva, Jan-Dec 1940.

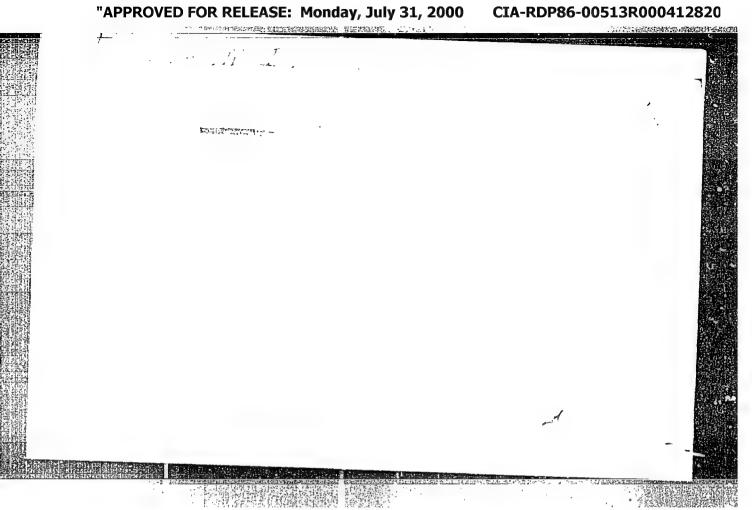
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	deg n and height H, P(z) is polynomial with tegral (entire) rational coeff of deg n and height H, and f(x,y) is certain function. Smitted 15 Sep 49, by Acad I. M. Vinogradov.	USSR/Mathematics - Approximation M	Establishes, for certain transcendental numbine inequalities of the form $ z - x  > f(H,n)$ an $ P(z)  > f(H,n)$ where x is algebraic number	"IR Ak Mauk SSSR, Ser Matemat" Vol XV, No pp 153-176	"Approximation of Certain Transcendental Numbers: II. Approximation of Certain Numbers Connected. With Weierstrass' P-function (in the Theory of Elliptic Integrals)," N. I. Fel'dman	USSR/Mathematics - Approximation
177345	th in- nd Sub- v.	177745 Mar/Apr 51	numbers z, n) and maber of	ູ້ທ	tal Numbers: Connected Theory of	Mar/Apr 51

	SOV/38-22-4-6/6
AUTHOR:	Fel'dman, N.I.
TITLE:	On Simultaneous Applotaneous (O sovmestnykh prisinalami)
	periodov ellipticheskoy funktsii alamaticheskaya, 1958, periodov ellipticheskoy funktsii alamaticheskaya, 1958, periodov ellipticheskoy funktsii alamaticheskaya, 1958, vol 22, Nr 4, pp 563-576 (USSR) vol 22, Nr 4, pp 563-576 (USSR)
PERIODICAL:	Izvestiya Akademii nauk SSSR, Seriya matematicheskayo, (USSR) Vol 22, Nr 4, pp 563-576 (USSR)
LULIONIAME	the invariance
ABSTRACT:	Let $\omega$ and $\omega_1$ be the periods and $\varepsilon_2$ , $\varepsilon_3$ the invariants of the Weierstraß $\beta$ -functions. If $\varepsilon_2, \varepsilon_3$ are algebraic and $\varepsilon_3$ of the Weierstraß $\varepsilon_3$ and $\varepsilon_4$ of the Weierstraß $\varepsilon_3$ and $\varepsilon_4$ are algebraic numbers, then it holds
	of the Weierstran of numbers, then it holds
	of the Weierstraß $g$ -functions. Is $32.53$ and $5_1$ arbitrary algebraic numbers, then it holds and $5_1$ arbitrary algebraic numbers, then it holds $ \omega - 5  +  \omega_1 - 5_1  > \bullet$ ; here it is
	-AonoN in here it is
	$ \omega - \xi  +  \omega_1 - \xi_1  > 0$
	n the degree of the extension
	$ \omega - \xi  +  \omega_1 - \xi_1 $ , $\omega_1$ , $\omega_2$ , $\omega_3$ , $\omega_4$ , $\omega_4$ , $\omega_5$ , $\omega_5$ , $\omega_6$
	arising from the field of the lautenant in h
	$\frac{\ln h}{1} + \frac{\ln \frac{1}{1}}{1} + 1$ ; n ax
	arising from the field of the rational and of $\xi$ and $\xi_1$ ; N ln N = $n_0(\ln n_0 + \frac{\ln h}{n} + \frac{\ln h_1}{n_1} + 1)$ ; n are
	01 2 - 31.
Card 1/2	

sov/38-22-4-6/6

On Simultaneous Approximation of the Periods of an Elliptic Function by Algebraic Humbers

 $n_1$  are the degrees of  $\xi$ ,  $\xi_1$ ; h and  $h_1$  the heights of  $\xi$ 

There are 5 references, 3 of which are Soviet, 1 German, and

1 American.

PRESENTED:

by M.A. Lavrent'yev, Academician

SUBMITTED:

July 8, 1957

2. Functions 1. Mathematics

USCONTI-DC-60314

Card 2/2

CIA-RDP86-00513R0004128200 APPROVED FOR RELEASE: Monday, July 31, 2000

SOV/42-14-1-22/27 16(1) On the Transcendence of Numbers of Some Classes (O trans -AUTHOR: tsendentnosti chisel nekotorykh klassov) PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 1, pp 237-244(USSR) In 1955 Roth Ref 1 has shown that ic is transcendent if  $\left|\frac{1}{4} - \frac{p}{q}\right| < \frac{1}{qk}$ , k > 2, (p,q) = 1 has infinitely many integral ABSTRACT: solutions p.q. The author shows (theorem 1) that this theorem is also valid for k>1 if q in essential consists of powers of fixed prime numbers. Theorem 2 is contained in Th.Schneider, "Einführung in die transzendenten Zahlen", Göttingen 1957. Theorem 3: Let the coefficients of the series  $f(x) = a_m x$ ... (radius of convergence R>0) be rational numbers. Let  $\lim_{n\to\infty} \sup \frac{m_{n+1}}{m_n} = c > 1$ ,  $\lim_{n\to\infty} \frac{\ln Q_n}{m_n} = 0$ , where  $Q_n$  is the common Card 1/2

On the Transcendence of Numbers of Some Classes  $\begin{array}{c} \text{SOV}/42\text{-}14\text{-}1\text{-}22/27 \\ \text{denominator of } a_0,\dots,a_m \\ \text{O} < |p| < \text{Rq} \end{array} \text{ . Let p and q be integral and} \\ \text{O} < |p| < \text{Rq} \end{array} \text{. Then } f(\frac{p}{q}) \text{ is no algebraic irrational number.} \\ \text{There are 5 references, 2 of which are Dutch, 2 German, and} \\ \text{1 English.}$ 

May 28, 1957

Card 2/2

SUBMITTED:

TROST, Ernst; FEL'DMAN, N.I. [trenslator]; OKL'FOND, A.O., red.

[Prime numbers] Prostye chisla, Meskve, Gos.izd-vo fizikometem.lit-ry, 1959. 135 p. Trenslated from the German.

(NIRA 14:2)

(Humbers, Prime)

S/044/60/000/008/002/035 C111/C222

/6.650 AUTHOR:

Fel'dman, N.I.

TITLE:

On the approximation of the number % by algebraic numbers

of fields generated by the roots of unity

PERIODICAL: Referativnyy zhurnal. Matematika, no.8, 1960, 18,

abstract no.8560. Tr. Mosk. geol.-razved. in-ta, 1959, 36,

188-198

TEXT: The author considered the question on the approximation of the number  $\pi$  by algebraic numbers  $\xi$  (Izv.AN SSSR, Ser.matem., 1951, 15, no.1, 53-74) and obtained the estimation

 $|\pi-\xi| > \exp\left\{-\gamma \sqrt{(1+\gamma \ln \gamma + \ln H)} \times \ln(2+\gamma \ln \gamma + \ln H)\right\}, \qquad (1)$ 

where is an algebraic number of degree V and the height H, while Y is an absolute constant.

In the abstracted article the author gives an estimation more exact than (1) for the special case where  $\xi$  are algebraic numbers belonging to the fields of the roots of unity.

Theorem 1: Let n be an arbitrary natural number,  $\xi > 0$ ; let  $K=R(e^{2\pi i/n})$  be a field arising from the field of rational numbers by adjoining the

Card 1/2

89530 8/044/60/000/008/002/035 C111/C222

On the approximation of the...

number  $g = e^{2\pi i/n}$ ; let  $\xi$  be an arbitrary number of this field with the degree v and the height H. If then  $\ln n > \varepsilon \ln H$  then there exists a constant number  $\Lambda_0$  depending on  $\varepsilon$  so that the inequality

$$|\pi - \xi| > \exp(-\Lambda_0 \varphi(n) \mathbb{N} \ln \mathbb{N})$$

$$\mathbb{N} = \varphi(\mathbb{N}) + \frac{\varphi(\mathbb{N}) \ln(\mathbb{H} + 2)}{\gamma_1 \ln \ln(\mathbb{H} + 2)}$$

is satisfied, where  $\varphi(n)$  -- Euler function. With the aid of theorem 1 the author obtains an estimation from below for  $\pi$ -cos  $\pi$  y for rational  $\pi$   $\neq$  0 and y.

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

Card 2/2

SOV/20-126-6-16/67 16(1) Fel'dman, N.I. AUTHOR: On the Measure of Transcendency of Number W and of the TITLE: Logarithms of Algebraic Numbers Doklady Akademii nauk SSSR,1959, Vol 126, Nr 6, pp 1214-1215 (USSR) PERIODICAL: The function  $\phi(H,n,\xi) = \min_{|a_k| \le H} |a_0 + a_1\xi + \dots + a_n\xi^n|$ ABSTRACT: where  $a_k$  is integer rational,  $\sum a_k^2 > 0$  is denoted as the measure of transcendency of a number  $\mathcal{G}$ .

The author gives the following estimations:  $\phi(\mathbf{H},\mathbf{n},\ln \mathcal{L}) > e$ (1)  $\phi(H,n,\tilde{n}) > e^{-\frac{2}{3} 2^{n(1+n \ln n + \ln H) \ln(2+n \ln n + \ln H)}}$ Here  $\gamma_1$  depends only on the algebraic number  $\propto$  and on the Card 1/2

On the Measure of Transcendency of Number îi and of 507/20-126-6-16/67 the Logarithms of Algebraic Humbers

choice of the Logarithm branch, 7 is an absolute constant. H and n are arbitrary and independent from each other. The deduction of the formulas (1) is based on the methods of A.O. Gel'fond [Ref 9.7. D.D. Mordukhay - Boltovskiy is mentioned.

There are 9 references, 4 of which are Soviet, 3 German,

1 English, and 1 Dutch.

ASSOCIATION: Moskovskiy geologo-razvedochnyy institut imeni S.Ordzhoni-

kidze (Moscow Institute for Geological Reconnaissance imeni

S. Ordzhonikidze)

March 16,1959, by P.S. Aleksandrov, Acadamician PRESENTED:

March 13,1959 SUBMITTED:

Card 2/2

\$/038/60/024/03/03/008

AUTHOR: Fel'dman, N.I.

TITLE: On the Measure of Transcendency of the Number 7

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1960, Vol. 24, No. 3, pp. 357-368

TEXT: The paper contains detailed proofs for the results announced in (Ref. 10) on the estimation from below of the magnitudes  $|\mathcal{X} - \xi|$  and  $|\mathbf{a}_n \mathcal{X}^n + \dots + \mathbf{a}_1 \mathcal{X}^n + \mathbf{a}_0|$ , where  $\xi$  is an algebraic number of n-th degree. There are 8 lemmata and 2 theorems. For the proofs the author uses ideas of 0.A. Gel'fond (Ref. 7) and an older own paper (Ref. 5). There are 10 references : 4 Soviet, 4 German, 1 Dutch and 1 English

PRESENTED: by I.M. Vinogradov, Academician

SUBMITTED: April 10, 1959

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Card 1/1

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S/038/60/024/004/003/010XX C 111/ C 333

16.4100 AUTHOR: Fel'dman, N. I.

TITLE: On the Approximation of the Logarithms of Algebraic Numbers by Algebraic Numbers

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1960, Vol. 24, No. 4, pp. 475-492

TEXT: Theorem 1: Let  $\ln \infty_1, \ldots, \ln \infty_m$  be linearly independent logarithms of the algebraic numbers  $\infty_1, \ldots, \infty_m$ . There exists a constant  $\bigwedge_{0} = \bigwedge_{0} (\ln \times_1, \ldots, \ln \times_m)$ , such that for arbitrary algebraic numbers  $\Sigma_1, \ldots, \Sigma_m$  it holds

(18) 
$$\left| \ln \alpha_{1} - \overline{S}_{1} \right| + \dots + \left| \ln \alpha_{m} - \overline{S}_{m} \right| > H^{-\bigwedge_{0} (n \ln(n+2))^{1+1/m}}$$

where n is the degree of the field  $R(x_1,...,x_m;\xi_1,...,\xi_m)$ 

(19) 
$$H = \exp \left\{ n \left( \frac{\ln h_1}{n_1} + \cdots + \frac{\ln h_m}{n_m} \right) \right\}$$

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On the Approximation of the Logarithms of Algebraic Numbers by Algebraic Numbers

and  $n_1, h_1; \dots; n_m, h_m$  are the degrees and heights of the numbers

 $\xi_1, \dots, \xi_m$ , where  $n < \sqrt[4]{\ln H}$ .

Theorem 2: Let  $\alpha \neq 0$ , 1 be a fixed algebraic number,  $\ln \alpha$  a fixed of its value logarithm. There exists a constant  $\bigwedge_{1} = \bigwedge_{1} (\ln \alpha)$ , such that for every algebraic number  $\xi$  of degree n and height H, where  $n < \sqrt[4]{\ln H}$ , it holds

(48) 
$$|\xi| - \ln |\rangle H^{-\Lambda_1 n^2 \ln^2 (n+2)}$$

Theorem 3: Let  $\propto \pm 0$ , 1 be a fixed algebraic number,  $\ln \infty$  a fixed value of its logarithm. There exists a constant  $\bigwedge_2 = \bigwedge_2 (\ln \infty)$ , such that

such that
$$(49) \qquad | P(\ln \alpha)| > H^{-\Lambda_2 n^2 \ln^2(n+2)}$$

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S/038/60/024/004/003/010XX C 111/ C 333

On the Approximation of the Logarithms of Algebraic Numbers by Algebraic Numbers

where  $P(z) \neq 0$  is a polynomial with integer rational coefficients of degree n and height H, where  $n < \sqrt{\ln H}$ . (49) is obtained from (48) according to the method of (Ref.3). Theorem 2 follows from theorem 1 (specialization). The inequality (18) is obtained by the same method by which the author determined in (Ref.6) the measure of transcendence of  $\mathcal{J}$ . He essentially used the method of A.O. Gel'fond (Ref.7). The proof of theorem 1 is based on 11 lemmata (partially known).

D.D. Mordukhay-Boltovskoy is mentioned in the paper.

There are 9 references: 6 Soviet, 1 German, 1 English and 1 French.

Libstracter's note: (Ref.3) is a paper of the author in Izvestiya

Akademii nauk SSSR, 1951, Vol. 15, 53-74; (Ref.6) is a paper of the author in Izvestiya Akademii nauk SSSR, 1960, Vol.24, 357-368].

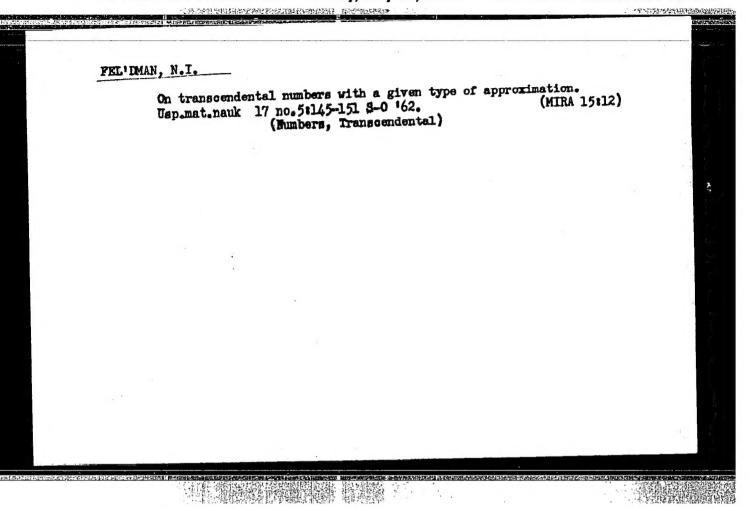
PRESENTED: by J. M. Vinogradov, Academician SUBMITTED: May 29, 1959

Card 3/3

## FEL DMAN, N.I.

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1. Predstavleno akademikom I.M.Vinogradovvm.
(Numbers, Transcendental)



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Arithmetic properties of the solutions to a transcendental equation. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.1: 13-20 Ja-F'64. (MIRA 17:2)

1. Kafedra matematicheskogo analiza Moskovskogo universiteta.